

## **RADIO FREQUENCY IDENTIFICATION SYSTEM AND METHOD**

### **Abstract of the Disclosure**

A radio frequency (RF) identification system and method which rely on the presence or absence of unique frequency signals. The system includes an RF interrogator which transmits signals at a plurality of different frequencies and which receives first frequencies of the plurality of different frequencies from an item label, and a computer which determines second frequencies of the plurality of different frequencies which were not received by the RF interrogator, and which determines an item identification number from the first and second frequencies by assigning first values equal to a first binary value to first data bits occupying first data bit positions in the item identification number for the first frequencies and assigning second values equal to a second binary value to second data bits occupying second data bit positions in the item identification number for the second frequencies.